

-#41731

TRANSMITTAL OF INFORMATION DISCLOSURE STATEMENT
(Under 37 CFR 1.97(b) or 1.97(c))

Docket No.
DKT 10115

In Re Application Of: **Hua N. Cheng, Simon Delagrave, Qu-Ming Gu and Dennis J. Murphy**

Serial No.
10/027,165

Filing Date
12/20/2001

Examiner
unknown

Group Art Unit
1731

Title: **ENHANCING LACCASE ACTIVITY USING PRO-OXIDANTS AND PRO-DEGRADANTS**

Address to:
Assistant Commissioner for Patents
Washington, D.C. 20231

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37 CFR 1.97(b)

1. ☒ The Information Disclosure Statement submitted herewith is being filed within three months of the filing of a national application other than a continued prosecution application under 37 CFR 1.53(d); within three months of the date of entry of the national stage as set forth in 37 CFR 1.491 in an international application; before the mailing of a first Office Action on the merits, or before the mailing of a first Office Action after the filing of a request for continued examination under 37 CFR 1.114.

37 CFR 1.97(c)

2. ☐ The Information Disclosure Statement submitted herewith is being filed after the period specified in 37 CFR 1.97(b), provided that the Information Disclosure Statement is filed before the mailing date of a Final Action under 37 CFR 1.113, a Notice of Allowance under 37 CFR 1.311, or an Action that otherwise closes prosecution in the application, and is accompanied by one of:
- ☐ the statement specified in 37 CFR 1.97(e);
- OR**
- ☐ the fee set forth in 37 CFR 1.17(p).

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Payment of Fee

(Only complete if Applicant elects to pay the fee set forth in 37 CFR 1.17(p))

- ☐ A check in the amount of _____ is attached.
- ☐ The Assistant Commissioner is hereby authorized to charge and credit Deposit Account No. _____ as described below. A duplicate copy of this sheet is enclosed.
- ☐ Charge the amount of _____
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I certify that this document and authorization to charge deposit account is being facsimile transmitted to the United States Patent and Trademark Office (F

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Signature

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Certificate of Mailing by First Class Mail

I certify that this document and fee is being deposited May 15 2002 with the U.S. Postal Service as first class mail under 37 C.F.R. 1.8 and is addressed to the Assistant Commissioner for Patents, Washington, D.C. 20231.

Signature of Person Mailing Correspondence

Deborah A. Lindinger

Typed or Printed Name of Person Mailing Certificate

*This certificate may only be used if paying by deposit account.

Signature

Dated: May 15, 2002

Joanne Mary Fobare Rossi

Attorney for Applicant

Registration No. 43,061

Attorney's Direct Dial: (302) 594-5833

CC:



DKT 10115

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Huai N. Cheng,
Simon Delagrave, Qu-Ming Gu,
and Dennis J. Murphy

Serial No.: 10/027,165

Filed: December 20, 2001

For: ENHANCING LACCASE ACTIVITY USING PRO-OXIDANTS AND
PRO-DEGRADANTS

Group Art Unit: 1731

Examiner: unknown

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Assistant Commissioner for Patents
Washington, D.C. 20231

Dear Sir:

INFORMATION DISCLOSURE STATEMENT

Relevant art for the above-referenced Application is submitted on the enclosed PTO form 1449. Pursuant to the duty of disclosure set forth in 37 C.F.R § 1.56 and in accordance with the provisions of 37 C.F.R§ § 1.97 and 1.98.

Copies of the above-noted documents are enclosed as is a completed copy of the PTO 1449 Form. Accordingly, the Examiner is respectfully requested to consider the documents and to indicate such consideration by returning a signed and initialed copy of the PTO-1449 Form.

It is pointed out that while this filing is more than three (3) months from the application filing date, this IDS is being filed before preparation of an Office Action and no fee should be due.

Should any fee be required, the undersigned hereby authorized the Commissioner to charge any fee necessary for the consideration of this statement, including any payment under 37 CFR 1.17(p), and to credit any

overpayment to Hercules Incorporated's Deposit Account No. 08-1800. This document is submitted in duplicate for this purpose.

Should the Examiner have any matter unresolved by this response, he is invited to telephone the undersigned at the below listed telephone number in order to expedite prosecution.

Respectfully submitted,



Joanne Mary Fobare Rossi
Attorney for Applicant
Reg. No. 43,061

Hercules Incorporated
1313 N. Market Street
Hercules Plaza
Wilmington, DE 19894-0001
Attorney's Phone: (302) 594-5833
May 14, 2002

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INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)



Docket Number (Optional)

10115

Application Number

10/027,165

Applicant(s)

Huai N. Cheng Simon Delagrave Qu-Ming Gu Dennis J. Murphy

Filing Date

December 20, 2001

Group Art Unit

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*EXAMINER

INITIAL

OTHER DOCUMENTS

(Including Author, Title, Date, Pertinent Pages, Etc.)

P. Bajpai, , TOPICAL PAPER, APPLICATIONS OF ENZYMES IN THE PULP AND PAPER INDUSTRY, Biotechnology Prog . 15, 147-157 (1999).

K. Li , R. F. Helm., K. E Eriksson, Biotechnology Application Biochem. 27, 239-243 (1998).

K. Li, F. Xu, K. E. Eriksson, Applied Environmental Microbiology, 65, 2654-2660, (1999).

R. Bourbonnais, M. G. Paice, ENZYMATIC DELIGNIFICATION OF KRAFT PULP USING LACCASE AND A MEDIATOR, Tappi Journal., 79, pages 199-204 (1996).

R. Bourbonnais, M. G. Paice, B. Freiermuth, E. Brodie S. Borneman, REACTIVITIES OF VARIOUS MEDIATORS AND LACCASES WITH KRAFT PULP AND LIGNIN MODEL COMPOUNDS , Applied and Environmental Microbiology, 63, pages 4627-4632 (1997).

Andrzej Leonowicz, et al. FUNGAL LACCASE; PROPERTIES AND ACTIVITY ON LIGNIN , Journal of Basic Microbiology, 41,(304), 185-227 (2001).

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EXAMINER

DATE CONSIDERED

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.